TYPE OR PRINT IN BLACK INK (For instructions, see

booklet: "How to File an Application to Appropriate Water in California")



California Environmental Protection Agency

State Water Resources Control Board Division of Water Rights P.O. Box 2000, Sacramento, CA 95812-2000

Tet (916) 341-5300 Fax: (916) 341-5400

www.waterrights.ca.gov

APPLICATION NO.

2.

3.

www.waterrights.ca.gov

APPLICATION TO APPROPRIATE WATER

1. APPLICANT/AGENT

	APPLICANT	ASSIGNED AGENT (if any)
Name	Cooley Ranch Company	Wagner & Bonsignore, CCE
	"McChristian Pond"	w 4
Mailing Address	P.O. Box 1146	444 North Third Street Ste 325
City, State & Zip	Novato, CA 94948	Sacramento, CA 95811
Telephone		(916) 441-6850
Fax		(916) 448–3866
E-mail		rstolfus@wagner-engrs.com

OWNERSHIP INFORMA	TION (Please check type of owners	ship.)			
☐ Sole Owner ☑ Limited Partnership*	☐ Limited Liability Company (LLC) ☐ Business Trust ☐ Joint Venture	☐ General Partne ☐ Husband/Wife ☐ Other	Co-Owi	nership)
☐ Corporation *Please identify the names	, addresses and phone numbers of all pa		10		
to type of construction acti	(Provide a detailed description of you vity, area to be graded or excavated, and and check box below and label as an att	how the water will	but not	d.) Add	d — —
					_
6 				200	<u>C.</u>
			H	00	
			48 Q	M	Q:
			$\Omega \leq 1$		要用
			美温	-(0)	743
				1	-21
-			C 5		
			d	co	
□ For continuation, see Atta	chment No			01	

4. PURPOSE OF USE, DIVERSION/STORAGE AMOUNT AND SEASON

a.	PURP	OSE		DIRECT	DIVERSION			STORAGE	
	OF USE (irrigation,		AMC	UNT	SEAS(DIVER	************************	AMOUNT		SON OF ECTION
	domestic		Rate (cfs or gpd)*	Acre-feet per annum		Ending date (month & day)	Acre-feet per annum	Beginning date (month & day)	
	Stockw	ater	50				35	10-1	5-31
			Total afa		ss than 0.025 o	Total afa	35		- on dou/on
d. *	Underg County Sonom Reserv	round Sto in which a & Mer oir is S AND P	e is: 🛛 ons orage Form diversion is ndocino * located OINTS OI	.) located: in both DIVERS	offstream Mendocino counties SION/REDIV	(see Atta ERSION	County in wh	nich water w	
a.	Sources and Points of Diversion (POD)/Points of Rediversion (PORD):								
	☑ POD / □ PORD # McChristian Creek tributary to Dry Creek thence Russian River								
	Dry	Creek	RD #						tributary to
	Ц РОС				thence				tributary to
	ПРОВ	/ \square POF	RD#					L	ibutary to
					thence				
	□ POD	/ D POF	RD #					tr	ibutary to
									;
	See Attac	hment No	·		below and labe				
b.			l Public Lai FORNIA	nd Survey	Coordinate D	escription:	ON TOWN	DANCE	BASE ANI
	POD/ PORD #	COOR	DINATES AD 83)	ZONE	(40-acre subdivision)		SHIP	IVANOL	MERIDIAN
	1	N 2,06 E6,237		2	SE ¼ of SE ½	4 1	11N	12W	MD
					1/4 of 1	/4			
					1/4 of 1	/4			

Healdsburg

	a. Have you attached If NO, provide suffi unappropriated war pages, check box be	cient informat ter is available	tion to demons e for the propo	trate that the	nere is reasor	nable likeliho	od that additional
	☑ See Attachment Nb. Is your project local	ted on a strea	am system dec	clared to be	fully appropr	riated by the	State Water
	Resources Control ☐ YES ☒ NO	Board (State	water board)	during you	r proposed so	eason or dive	131011:
	c. In an average year If YES, during whice □ Nov □ Dec	, does the str h months? □	eam dry up at I Jan □ Feb □	any point d] Mar □ Ap	ownstream o or ဩ May ဩ 、	f your projec Jun ᡌ Jul ᡌ	t? ☑ YES ☐ NO Aug ☑ Sep ☐ Oct
	d. What alternate sou be excluded becau purchased water, e N/A	se water is no	ot available for	appropriat	ion? (e.g., pe	rcolating gro	undwater,
	☐ See Attachment N	lo		-			
7.	PLACE OF USE a. At Reservoir						
	USE IS WITHIN (40-acre subdivision)	SECTION*	TOWNSHIP	RANGE	BASE & MERIDIAN	IF I Acres	RRIGATED Presently cultivated?
	SE 1/4 of SE 1/4	1	11N	12W	MD		☐ YES ☐ NO
	SW 1/4 of SW 1/4	6	11N	11W	MD		☐ YES ☐ NO
	1/4 of 1/4						☐ YES ☐ NO
	1/4 of 1/4						☐ YES ☐ NO
	1/4 of 1/4						☐ YES ☐ NO
	1/4 of 1/4						☐ YES ☐ NO
50	1/4 of 1/4						☐ YES ☐ NO
							☐ YES ☐ NO
	1/4 of 1/4				Total Acres:		
	*Please indicate if sectio See Attachment No. Sonoma County	X Please pr	ovide the Asse	essor's Pard	cel Number(s	s) for the plac -03	e of use:
8.	a. Project is: ☐ prop ☐ partially comple	osed. Year o					4
	La complete. Year b. Year of first use:	completed:	1950's Year water wi				

CROP	ACRES	METHO	D OF	WATER USE	SEASON OF V	
		IRRIGAT (sprinklers, floo		(Acre- feet/Yr.)	Beginning date (month & day)	Ending dat (month & day)
See Attachm	ent No			A		
	TIC: Number of re NO Number of pe gallons per da omestic uses:	esidences to be sople to be serve y Area of domes	served: d: stic lawns ar	Sepa Estimated ond gardens:	arately owned? daily use per per	rson is: square feel
		(dust cont	rol area number	and kind of domesti	c animals, etc.)	
☑ STOCKW	VATERING: Kind	9079 DO			m number: 900)
Describe type	oe of operation:	Range		ot, dairy, range, etc.)		
□ RECRE	ATIONAL: Type o	of recreation:				er ·
		reordation. D	r ioimig —	og — .	200ming — 0 min	
List for 5-year	PAL: JLATION periods until use mpleted	MAXIMUM	MONTH		ANNUAL USE	
	Population	Average daily use (gallons per capita)	Rate of diversion (cfs)	Average dail use (gallons per capita)	(per capita)	Total (acre-feet)
Present						
				-		
	ent No aximum use durin inimum use durinç					
☐ HEAT CO	ONTROL: Area to	be heat controll	ed:	net ac	cres	
Rate at whi	ps protected: ch water is applied tion season will b	d to use:			g	pm per acr
Heat protec	tion season will b	egin(month and	i day)	and end _	(month a	and day)
FROST	PROTECTION: A	Area to be frost p	rotected:		net acres	
Rate at which	ps protected: ch water is applied of oction season w	d to use:	gr	m per acre		
	otection season w	50	nth & day)	(r	month & day)	
☐ INDUST	RIAL: Type of inc etermination of am	dustry:	eded:			
I MINING	Name of the cla	im:			□ Patented □	1 Unnatent

CONDUIT (pipe or channel)	Vertical height from downstream toe of slope to spillway level (feet)	g; or e top ot)	(pipe diam ditch dep and bottor (inches or storage, co	th and n width) feet)	nd attach i	undergrourface a when full acres)	- 10.F	(cfs. gpd o gpm) gpm) ge form)
CONDUIT (pipe or channel) See Attach	channel lining Indicate if pip Is buried or no ment No reservoirs: (For u	g; or e top ot)	ditch dep and bottor (inches or	th and n width) feet)		feet	+ or -	(cfs. gpd o gpm) gpm) ge form)
CONDUIT (pipe or channel)	channel lining Indicate if pip is buried or no ment No	g; or e top ot)	ditch dep and bottor (inches or	th and n width) feet)		feet	- 10.F	(cfs, gpd o
CONDUIT (pipe or channel)	channel lining Indicate if pip is buried or no	g; or e top	ditch dep and bottor	th and n width)				(cfs, gpd o
CONDUIT (pipe or	channel lining indicate if pip	g; or e top	ditch dep and bottor	th and n width)				(cfs, gpd o
CONDUIT (pipe or	channel lining indicate if pip	g; or e top	ditch dep and bottor	th and n width)	(leedy			(cfs, gpd o
CONDUIT (pipe or	channel lining indicate if pip	g; or e top	ditch dep and bottor	th and n width)	(ieci)			(cfs, gpd c
CONDUIT (pipe or		or	(pipe diam	eter,	(1000)		OIVIALL	(cfs, gpd o
	MATERIAL	CI	ROSS-SE		LENGTH	HET	OTAL OR FALL	CAPACIT
All Schoolsensen	rom diversion poi	nt to first later	ral or to o	ffstream st	orage res			
	scharge rate: ficiency:		fs or 🗆 gr					5
. Diversion	n will be by pumpi	ng from:	- consistence of the constant				reservoir, et	
	n will be by gravity	(dam, pipe in	unobstruc	ted channe	I, pipe thro	ugh dam	, siphon, wei	ir, gate, etc
	N AND DISTRI			58				
Basis for o	determination of a	amount of wat	er needed	d:				
☐ OTHER	t: Describe use:							
	ND WILDLIFE Plope that will be pre							
After use,	the water will be	discharged in	to			DOM	(wat	tercourse)
being gen Electrical	erated by the work capacity (hp x 0.7)	rks (cfs x fall ÷ 8.8 46 x efficiency)	3): :	kilov	watts at:	%	efficiency	
Maximum	ER: Total head to flow through the	penstock:	(cfs Maxim	um theore	etical ho	rsepower c	apable of
					, ĸ		Β. α	IVI.
	74 01			T	D		(NA
	the water will be	discharged in	ito				()	watercours

RESERVOIR			OUTLE	T PIPE	
NAME OR NUMBER	Diameter in inches	Length in feet	Fall: Vertical distance between entrance and exit of outlet pipe in feet	Head: Vertical distance from spillway to entrance of outlet pipe in feet	Dead Storage: Storage below entrance of outlet pipe in acre-feet
1	Reserv	voir is	existing. Dewater	ing will be accompl	ished by pump
☐ See Attachme	ent No.				
e. If water will to off-strear ☐ Pumping	n storage v g □ Gravity	vill be y	cfs. Diversion to	nt of diversion, the maximo offstream storage will be	um rate of diversion made by:
a. What metho	ous will you	use to cc	nserve water? Explain		
	ing water? Observat		LI Weter LI Periodic's	ampling 🛚 Other (describ	
a. Does the a	pplicant ow NO do □ do r	not have a	a recorded easement or	I be diverted, transported written authorization allow	ving me access.
a. Does the a	pplicant ow NO do □ do r nes and ma	not have a ailing add	a recorded easement or		ving me access.
a. Does the ap A YES ☐ If NO, I ☐ b. List the nar taken to ob	pplicant ow NO do □ do r mes and ma tain access	not have a ailing add	a recorded easement or	written authorization allow	ving me access.
M YES ☐ If NO, I ☐ b. List the nar taken to ob ☐ See Attachm	pplicant ow NO do □ do r mes and ma stain access	not have a ailing add	a recorded easement or	written authorization allow	ving me access.

	□ See Attachment No
l. O	THER SOURCES OF WATER Are you presently using, or do you intend to use, purchased water or water supplied by contract in connection with this project? ☐ Yes ☐ No If yes, please explain:
	AD DECLUDENTAL
	AP REQUIREMENTS The Division cannot process your application without accurate information showing the source of water and location of water use. You must include a map with this application form that clearly indicates the quarter/quarter, section, township, range, and meridian of (1) the proposed points of diversion and (2) the place of use. A copy of a U.S.G.S. quadrangle/topographic map of your project area is preferred, and can be obtained from sporting goods stores or through the Internet a http://topomaps.usgs.gov. A certified engineering map is required when (1) appropriating more than three cubic feet per second by direct diversion, (2) constructing a dam which will be under the jurisdiction of the Division of Safety of Dams, (3) creating a reservoir with a surface area in excess of ten acres or (4) appropriating more than 1,000 acre-feet per annum by underground storage. See the instruction booklet for more information. See Attachment No. 3
	ENVIRONMENTAL INFORMATION
form nviro een p e Sta e reg	Before a water right permit may be issued for your project, the State Water Board must consider the ation contained in an environmental document prepared in compliance with the California nmental Quality Act (CEQA). This form is not a CEQA document. If a CEQA document has not yet prepared for your project, a determination must be made of who is responsible for its preparation. If ate Water Board is determined to be responsible for preparing the CEQA document, the applicant we wired to pay all costs associated with the environmental evaluation and preparation of the required ments. Please answer the following questions to the best of your ability and submit with this action any studies that have been conducted regarding the environmental evaluation of your project.
	OUNTY PERMITS Contact your county planning or public works department and provide the following information:
a.	Person contacted: www.sonoma-county.org/PRMD Date of contact: 12-4-08 Department: PRMD Date of contact: 12-4-08 Department: PRMD Date of contact: 12-4-08 Department: PRMD Date of contact: 12-4-08 County Zoning Designation:
	Sonoma 114-010-001 LEA B6 240 Z / Mendocino 049-460-03 Are any county permits required for your project? YES NO If YES, check appropriate box below: Grading permit Use permit Watercourse Obstruction permit Change of zoning
	☐ General plan change ☐ Other (explain):

17.	a.	Check any additional state or federal permits required for your project: ☐ Federal Energy Regulatory Commission ☐ U.S. Forest Service ☐ U.S. Bureau of Land Management ☐ U.S. Corps of Engineers ☐ U.S. Natural Res. Conservation Service ☐ Calif. Dept. of Fish and Game ☐ State Lands Commission ☐ Calif. Dept. of Water Resources (Div. of Safety of Dams) ☐ Calif. Coastal Commission ☐ State Reclamation Board ☐ Other (specify)								
	b. For each agency from which a permit is required, provide the following information:									
		AGENCY	PERMIT TYPE	PERSON(S) CONTACTED	CONTACT DATE	TELEPHONE NO.				
		☐ See Attachme	ent No							
	C.	Does your proposignificantly alterlake? If YES, explain:	ered or would sig	rolve any construction or g gnificantly alter the bed, b	grading-related a pank, or riparian h	ctivity that has nabitat of any stream or				
	d.	☐ See Attachme Have you conta ☐ YES ☒ NO	cted the Califor	nia Department of Fish ar telephone number and d	nd Game concerrate of contact:	ning your project?				
18.				I T cy prepared an environme	ental document f	or your project?				
	b.	☐ YES ☒ NO If YES, submit a notice of detern	a copy of the lat nination adopted	est environmental docum d by the California public	ent(s) prepared, agency. Public	including a copy of the agency:				
	C.	☐ The applicate ☐ I expect that ☐ I expect that	nt is a California t the State Wate t a California pu document.* Pu	x and explain below, if ne a public agency and will be Board will be preparing blic agency other than the blic agency:	e preparing the e the environment e State Water Bo	ard will be preparing the				
		determination payment of the	n) or notice of exe		Board, Division of V	including notice of Water Rights and proof of n cannot be completed until				
		The informat	ion contained in t	State Water Board, as Lead he environmental document direction of the State Wate	t must be develope	the environmental document. ed by the applicant and at the f Water Rights.				

17.

19.		Will your project, during construction or operation, (1) generate waste or wastewater containing such things as sewage, industrial chemicals, metals, or agricultural chemicals, or (2) cause erosion, turbidit or sedimentation? ☐ YES ☒ NO If YES, or you are unsure of your answer, explain below and contact your local Regional Water Quality Control Board for the following information (See instruction booklet for address and telephone no.):
		See Attachment No
	b.	Will a waste discharge permit be required for your project? ☐ YES ☒ NO Person contacted: Date of contact: What method of treatment and disposal will be used?
	C.	What method of treatment and disposal will be used?
		See Attachment No
20.		RCHEOLOGY
	b	Have any archeological reports been prepared on this project? ☐ YES ☒ NO Will you be preparing an archeological report to satisfy another public agency? ☐ YES ☒ NO Do you know of any archeological or historic sites located within the general project area? ☐ YES ☒ NO If YES, explain:
		☐ See Attachment No
21.	El	Attach two complete sets of color photographs, clearly dated and labeled, showing the vegetation that exists at the following three locations: Along the stream channel immediately downstream from the proposed point(s) of diversion. Along the stream channel immediately upstream from the proposed point(s) of diversion. At the place(s) where the water is to be used. See Attachment No4_

SUBMITTAL FEES

Calculate your application filing fee using the "Water Right Fee Schedule Summary" that was enclosed in the application packet. The "Water Right Fee Schedule Summary" can also be viewed at the Division of Water Rights' website (www.waterrights.ca.gov).

A check for the application filing fee, payable to the "Division of Water Rights" and an \$850 check for the Streamflow Protection Standards review fee [Pub. Resources Code § 10005(a)], payable to the "California Department of Fish and Game," must accompany this application. All applicable fees are required at the time of filing. If the application fees are not received, your application will not be accepted and will be returned to you. Please check the fee schedule for any fee changes prior to submitting the application.

DECLARATION AND SIGNATURE

I declare under penalty of perjury that all information provided is true and correct to the best of my knowledge and belief. I authorize my agent, if I have designated one above, to act on my behalf regarding this water right application. Title or Relationship Signature of Applicant Title or Relationship Date Signature of Co-Applicant (if any) Applications that are not completely filled out and/or do not have the appropriate fees will not be accepted. In the event that the Division has to return the application because it is incomplete, a portion of the application submittal fee will be charged for the initial review. "APPLICATION TO APPROPRIATE WATER" CHECKLIST Before you submit your application, be sure to: Answer each question completely. Number, label and include all necessary attachments. Include a legible map that meets the requirements discussed in the instruction booklet. Include the Water Availability Analysis or sufficient information to demonstrate that there is reasonable likelihood that unappropriated water is available for the proposed appropriation. Include two complete sets of color photographs of the project site. Enclose a check for the required fee, payable to the Division of Water Rights. Enclose an \$850 check for the Streamflow Protection Standards review fee, payable to the Department of Fish and Game. Sign and date the application. Send the original and one copy of the entire application to: State Water Resources Control Board Division of Water Rights P.O. Box 2000

Sacramento, CA 95812-2000

Attachments to Accompany Water Right Application Cooley Ranch Company Buckeye Pond

2. Ownership Information

General Partner

A. Crawford Cooley P.O. Box 1146 Novato, CA 94948 415-883-9240

Limited Partners

Jess P. Cooley P.O. Box 1146 Novato, CA 94948 415-883-9240

Janet F. Cooley 2001 Irrevocable Trust P.O. Box 1146 Novato, CA 94948 415-883-9240

Michael P. Cooley 2001 Irrevocable Trust P.O. Box 1146 Novato, CA 94948 415-883-9240

Nancy E. Cooley 39 East 79th Street, Apt. 7B New York, NY 10021 212-744-9545

Robert A. Cooley Separate Property Cooley Ranch Trust 2489 Incline Drive Santa Rosa, CA 95404 707-528-2981

Jessica Sterling 41 Mariners Circle San Rafael, CA 415-491-4870 Nancy E. Cooley as Cust. for James Benasuil under NY UTMA 39 East 79th Street, Apt. 7B New York, NY 10021 212-744-9545 Robert A. Cooley as Cust. for Crawford E. Cooley under CA UTMA 2489 Incline Drive Santa Rosa, CA 95404 707-528-2981

Robert A. Cooley as Cust. for Alexandra E. Cooley under CA UTMA 2489 Incline Drive Santa Rosa, CA 95404 707-528-2981

Attachments to Accompany Water Right Application Cooley Ranch Company McChristian Pond

Attachment #1

3. Project Description

This project consists of storage of water in an existing onstream reservoir, having a capacity of approximately 35 acre-feet located on the Applicant's property (see location on Attachment 3). Water will be used for stockwatering purposes at the reservoir. The reservoir was built in 1950's and stores water from its naturally tributary area.

The project described in this Application involves no changes to the existing reservoir, no changes in water use or water diversions relative to historical conditions for this project. Accordingly, this Application qualifies for a Categorical Exemption under Title 14, California Code of Regulations, Section 15301, Existing Facilities, which states the following:

"Class 1 consists of the operation, repair, maintenance, permitting, leasing, licensing, or minor alteration of existing public or private structures, facilities, mechanical equipment, or topographical features, involving negligible or no expansion of use beyond that existing at the time of the lead agency's determination."

Based on the foregoing, we are requesting that the State Water Board grant a Categorical Exemption to this Application and proceed with further processing as necessary for permit issuance.

Attachment #2

6. Water Availability
See separate attachment.

Attachment #3

15. Map See separate attachment.

Attachment #4

21. Environmental Setting (Photographs)
See State Water Board inspection report.

ATTACHMENT 2

Water Right Application by Cooley Ranch Company Estimate of Water Availability

Point of Diversion #1 - McChristian Creek

Monthly Precipitation(1)

CLOVERDALE 3 S, CALIFORNIA

Month	Mean Precipitation (in)
October	2.36
November	5.81
December	8.38
January	9.29
February	7.73
March	5.53
April	2.84
May	1.07
June	0.21
July	0.04
August	0.13
September	0.55
Annual	43.94

Mean Precipitation for requested diversion season (11/1 - 5/31):	40.64 in
Precipitation during requested diversion season as a percentage of total precipitation:	92.49%
Mean Annual Runoff:(2)	23.5 in
Estimated Mean Seasonal Runoff:(3)	21.7 in
Watershed Area for Point of Diversion #1:	613.0 ac
Total Estimated Mean Seasonal Runoff at Point of Diversion #1:	1,108.5 ac-ft
Senior Diverters of Record within subject watershed (face value):	0.0 ac-ft
Subtotal water available:	1108.5 ac-ft
Requested diversion amount:	35.0 ac-ft
Total seasonal amount remaining in stream after diversion:	1073.5 ac-ft

Notes:

⁽¹⁾ Source: California Climate Data Archive website (http://www.calclim.dri.edu/ccda/data.html) accessed December 2, 2008.

⁽²⁾ Mean Annual Runoff in the San Francisco Bay Region, California, 1931-70 (Miscellaneous Field Studies Map MF-613), by S.E. Rantz, 1974.

⁽³⁾ Estimated mean seasonal runoff is computed by multiplying mean annual runoff by percent seasonal precipitation.

ATTACHMENT 2 Water Right Application by Cooley Ranch Company Calculation of Weighted Mean Annual Runoff in POD Watershed

Watershed	Area	Mean Annual Runoff	Volume
pop 4 M Cl. Lil. C L	(ac)	(in)	(ac-in)
POD 1 - McChristian Creek	612	22.5	14.406
	613	23.5	<u>14,406</u>
Total	613		14,406
Weighted Average		23.5	

CLOVERDALE 3 S, CALIFORNIA Monthly Total Precipitation (inches) -41838

File last updated on Oct 18, 2007

*** Note *** Provisional Data *** After Year/Month 200707

a = 1 day missing, b = 2 days missing, c = 3 days, ..etc..,

z = 26 or more days missing, A = Accumulations present

Long-term means based on columns; thus, the monthly row may not

sum (or average) to the long-term annual value.

MAXIMUM ALLOWABLE NUMBER OF MISSING DAYS: 5

Individual Months not used for annual or monthly statistics if more than 5 days are missing. Individual Years not used for annual statistics if any month in that year has more than 5 days missing.

WY	OCT	Γ	NOV	/	DEC		JAN	1	FEB		MAF	2	AP	R	MA	Y	JUN	1	JUI		AUG	3	SEI)	ANN
1950							0	Z	0	\mathbf{z}	0	Z	0	Z	0	Z	0	Z	0	u	0	Z	0	Z	170
1951	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	-
1952	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	\mathbf{Z}	0	Z	-
1953	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	\mathbf{z}	0	Z	0	Z	0	Z	127
1954	0	Z	0	Z	0	\mathbf{z}	0	\mathbf{Z}	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	120
1955	0	Z	0	Z	0	Z	0	Z	0	\mathbf{Z}	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	0	Z	-
1956	0	Z	4.17		25.39		15.31		8.97		0.35		3.15		0.85		0.08		0.12		0		0.26		-
1957	3.38		0.17		0.67		8.05		10.25		3.81		3.14		5.49		0		0		0		4.3		39.26
1958	8.26		1.2		5.47		8.61		23.23		8.81		6.79		0.47		0.95		0		0		0.02		63.81
1959	0.17		0.48		2.01		17.19		11.01		1.48		1.26		0.02		0		0		0		3.42		37.04
1960	0		0.02		2.22		7.77		9.14		6.24		1.69		1.05		0		0		0		0		28.13
1961	1.1		7.12		9.04		6.39		4.19		6.04		1.08		0.55		0		0		0		0.15		35.66
1962	0.34		7.22		3.88		2.09		14.31		6.24		0.57		0.23		0		0		0.26		0.41		35.55
1963	12.24		1.42		5.81		0.08	g	6.58	c	7.8		7.28		1.51		0		0		0		0.15		_
1964	4.71		11.52		1.68		6.66		0.51		3.24		0.66		1.17		1.05		0.05		0		0		31.25
1965	4.57		10.21		17.98		11.15		1.77		1.95		7.91		0		0		0.03		0.5		0		56.07
1966	0.13		15.96		7.57		11.88		7.26		2.66		1.5		0.29		0.09		0		0.09		0.12		47.55
1967	0		12.72		11.07		15.86		0.65		10.79		6.24		0.25		2.12		0		0.01		0.04		59.75
1968	1.48		3.64		6.3		12.12		6.42		5.33		1.75		0.37		0		0		1.18		0		38.59
1969	2.75		4.19		14.04		18.93		15.02		2.3		3.54		0		0.02		0		0		0		60.79
1970	2.23		1.97		18.22		25.72		4.8		3.57		0.3		0.07		0.44		0		0		0		57.32
1971	2.82		9.59		13.13		6.29		0.33		5.94		1.63		0	z	0		0		0.07		0.46		85.5
1972	0.39		3.08		7.95		2.4		2.97		1.51		3.04		0.33		0.11		0		0.06		1.1		22.94
1973	5.53		7.82		6.11		18.73		11.93		4.57		0.21		0.07		0		0		0.25		0.98		56.20
1974	3.99		19.67		7.63		10.56		4.57		13.29		2.5		0.11		0		1.35		0.15		0		63.82
1975	1.6		1.87		6.63		1.73		14.31		12.07		2.06		0.04		0.02		0.25		0.07		0		40.65
1976	4.93		1.69		1.87		0.53		2.64		1.62		3.9		0		0		0.03		1.12		0.41		18.74
1977	0.29		2.7		1.27		2.62		2.82		2.99		0.15		2.19		0		0		0.04		3.31		18.38
1978	1.15		6.8	20	10.41		20.33		10.08		7.16		5.96		0.17		0.02		0		0		2.21		64.29
1979	0		1.45		0.37		11.74		9.13		5.66		2.84		0.88		0		0		0		0.27		32.34
1980	6.43		8.21		9.48		9.32		16.91		2.14		2.87		0.34		0.19		0		0		0.03		55.92
1981	0.82		0.7		8.54		10.85	a	4.08		4.26		0.47		1.06		0		0.06		0		0.6		31.44
1982	5.71		13.58		12.02		7.94		5.97		8.01		6.55		0.06		0.08		0		0		0.8		60.72
1983	4.84		9.54		8.22		14.57		13.05		20.76		5.7		0.62		0	Z	0	Z	1.49		0.84		=
1984	1.33		17.61		17.8		0.68		3.26		3.27		1.27		0.2		0.25		0		0.15		0.1		45.92
1985	2.64		14.6		2.34		0.56		2.81		6.73		0.17		0.01		0		0.07		0		1.34		31.27
1986	2.13		5.55		4.48		9.37		22.13		8.58		1.15		0.6		0.02		0		0		1.75		55.76
1987	0.89		0.19		2.9		6.2		5.97		8.52		0.17		0.25		0		0		0	Z	0		-
1988	1.8		4.37		13.28		8.74		0.58		0.16		2.68		0.83		0.48		0		0		0		32.92
1989	0.36		5.51		3.99		1.53		1.11		12.6		1.73		0.23		0	Z	0		0		2.75		-
1990	4.14		2		0		7.37		3.87		1.99		0.37	g	5.24		0	Z	0	Z	0	Z	0	Z	-
1991	0	Z	0.46		1.3		1.02		4.78		0	z	0	z	0	\mathbf{z}	0	Z	0	Z	0	Z	0	Z	

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WY	OCT	•	NOV	7	DEC		JAN		FEB		MAR	2	APR		MAY		JUN		JUL	ΑL	G	SEP		ANN
1992	0	Z	0	Z	0	Z.	0	Z	0	Z	0	Z	0	Z.	0	Z	0	Z	0 :	z 0		0.01		_
1993	3.46		0.69		13.77		13.78		10.11		4.07		2.59		4.5		0.55		0	0		0		53.52
1994	0.41		2.9		5.87	a	5.83		7.42		0.46	a	2.73		1		0		0.03	0		0.08		26.73
1995	0.49		8.42		5.04		31.25		0.34		20.14		3.89		2.53		0.38		0	0		0		72.48
1996	0		0.2		13.79		9.72		13.12		3.01		4.04		2.84		0		0	0		0.19		46.91
1997	1.61		5.17		20.31		14.3		0.49		2.17		0.83		0.84		0.59		0	1.03		0.46		47.80
1998	1.63		10.78		3.94		0	Z	24.04		6.15		0	Z	6.05		0.02		0	0		0.06		-
1999	1.03		9.2		1.51	a	4.66		11.84		6.26		2.1		0.31		0		0	0		0	Z	, , ,
2000	1.13		5.28	a	1.14		8.1		14.45		2.5		3.36		1.45		0.32		0	0	Z	0.15		-
2001	4.22		0	Z	0.89		7.45		10.94		3.51		1.22		0		0.72		0	0		0.17		-
2002	1.58		10.94		12.8		5.44		1.97		3.08	b	0.45		1.15		0		0	0		0		37.41
2003	0		5.87		22.66		5.43		2.41	a	3.6		8.39	a	0.73		0		0	0		0		49.09
2004	0		5.37		16.24		5.38		12.81	a	1.39		0.63	m	0		0.02		0	0		0		-
2005	5.12		3.44		11.58		7.75		4.67		6.63		2.49		5.56		1.47	a	0	0		0		48.71
2006	1.21	a	4.65	a	20.59	a	7.51	a	5.63		15.43	a	9.38		0.54		0		0	0		0		64.94
2007	0.34		3.66	a	7.45	a	0.49	c	11.1	a	0.72		2.4		0.45		0		0.1	0		0.13		26.84
2008	2.76		0.5		6.95	a	16.68		3.24	a	0.47		0.4		0		0	Z	0	0		0	Z	
									Pe	erioc	i of Reco	ord S	Statistic	s										
MEAN	2.36		5.81		8.38		9.29		7.73		5.53		2.84		1.07		0.21		0.04	0.13		0.55		44.65
MAX	12.24		19.67		25.39		31.25		24.04		20.76		9.38		6.05		2.12		1.35	1.49)	4.30		72.48
MIN	0.00		0.02		0.00		0.49		0.33		0.16		0.15		0.00		0.00		0.00	0.00)	0.00		18.38
NO YRS	50		51		52		50		52		51		48		50		47		49	49		49		38

